High Mountain Dams in Upalco Unit,
Island Lake Dam
Ashley National Forest
4.8 miles north of Miners Gulch Campground
~~Hanna Vicinity~~ MOUNTAIN HOME VICINITY
Duchesne County
Utah

HAER No. UT-42-I

HAER
UTAH,
7-MOHO.V,
1-I-

PHOTOGRAPHS

WRITTEN HISTORIC AND DESCRIPTIVE DATA

Historic American Engineering Record
Rocky Mountain Regional Office
National Park Service
U.S. Department of the Interior
P.O. Box 25287
Denver, Colorado 80537

HAER
UTAH,
7- MOHO.V,
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HISTORIC AMERICAN ENGINEERING RECORD

High Mountain Dams in Upalco Unit, Island Lake Dam

HAER No. UT-42-I

Location:	4.8 miles north of Miners Gulch Campground, Ashley National Forest Mountain Home vicinity, Duchesne County, Utah UTM: 12.533640.4494340 Quad: Kidney Lake
Date of Construction:	1920
Builder/Designer:	Farnsworth Canal and Reservoir Company
Present Owner:	Moon Lake Water Users Association, Roosevelt, Utah 84066
Original Use:	Dam
Present Use:	Dam
Significance:	Island Lake is one of three high mountain lakes in the Brown Duck Basin dammed by the Farnsworth Canal and Reservoir Company in 1920. The dam itself is representative and relatively well-preserved, but the replacement of the outlet mechanism has compromised its historical integrity.
Inventoried by:	Clayton Fraser and James Jurale Fraserdesign Loveland, Colorado October 19, 1985

HISTORICAL INFORMATION

The Farnsworth Canal and Reservoir Company filed for irrigation watr storage rights on three high mountain lakes--Island, Kidney and Brown Duck--in the Lake Fork River drainage in July 1915. The permits were approved by the State Engineer the following April and, by November 1920, small-scale earth-fill dams had been completed at all three lakes to raise and control the water levels. Damming Island Lake changed its character significantly. Originally two smaller natural lakes located on a tributary of the Lake Fork River, these were joined into a single reservoir with an island near the center by the higher water. The dam featured typical earth-fill construction, with sloped, riprap-covered faces and an inclined steel gate over a 40-inch corrugated steel outlet pipe. The outlet works were replaced in 1977 with the current inclined steel outlet pipe and screw. It is proposed that the dam be breached to lower the lake to within two feet of its naturAl level.

ARCHITECTURAL INFORMATION

Dam length:	250 feet
Dam height:	20 feet
Dam width:	18 feet
Construct:	Earth fill dam with stone riprap facing
Lake size:	60.7 acres; 757 acre-foot maximum capacity; 14 vertical foot maximum drawdown
Outlet:	Gated steel pipe

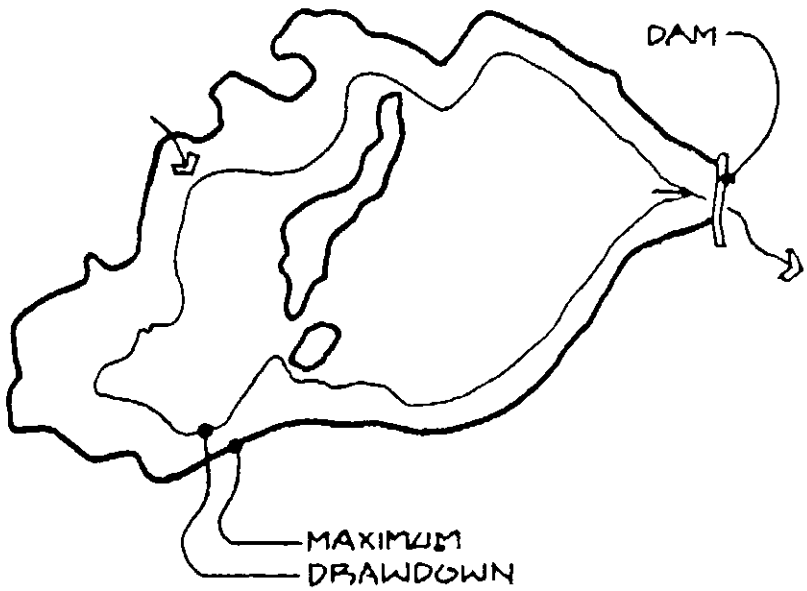
BIOGRAPHICAL INFORMATION

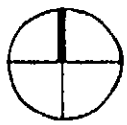
"Preliminary Engineering Report: Stabilization of High Mountain Lakes, Upalco Unit, National Forest Service Report, 1970, page 15.

William F. Gettleman, "Report on the Lakes and Reservoir of the Headwaters of the Uintah, Whiterocks and Lakefork Rivers, Uintah Project, Utah; Feb. 1932," page. 20.

Field inspection by Clayton Fraser, July 22, 1985.

For additional information, see Irrigation Canals in the Uinta Basin, HAER No. UT-30.


DAM
MAXIMUM
DRAWDOWN


SCALE: 1" = 600'